

Assignment 1 Python for DS

Introduction

In this assignment, you will work with **Python for Data Science** using a **Jupyter Notebook**. The notebook will serve as both a coding environment and a report, where you can write Python code, run data analysis, visualize results, and document your findings with explanations.

You will make use of standard Python libraries such as **Pandas, NumPy, Matplotlib, and Plotly** to handle, explore, and visualize datasets. The notebook will also contain **exercises** for you to solve in order to practice and strengthen your data analysis skills.

- [Download Notebook](#)
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Submission Guidelines

- Your notebook must include both **code cells** (for implementation) and **markdown cells** (for explanations, interpretations, and answers).
 - Ensure that your notebook runs **without errors from top to bottom**.
 - All **plots, tables, and outputs** should be visible in the final submitted file.
 - Keep your notebook **clean, readable, and well-structured** (e.g., sections for introduction, analysis, exercises, and conclusions).
 - Submit your file in the following format: **DS25-AS1-ID.ipynb**, where **ID** corresponds to your Canvas username.
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- Runs without errors from top to bottom
 - Includes both code and explanations in markdown cells
 - Displays all outputs, plots, and tables
 - Is clean, readable, and well-structured

You are required to submit your finished work as a `.ipynb`